

Fig. 2

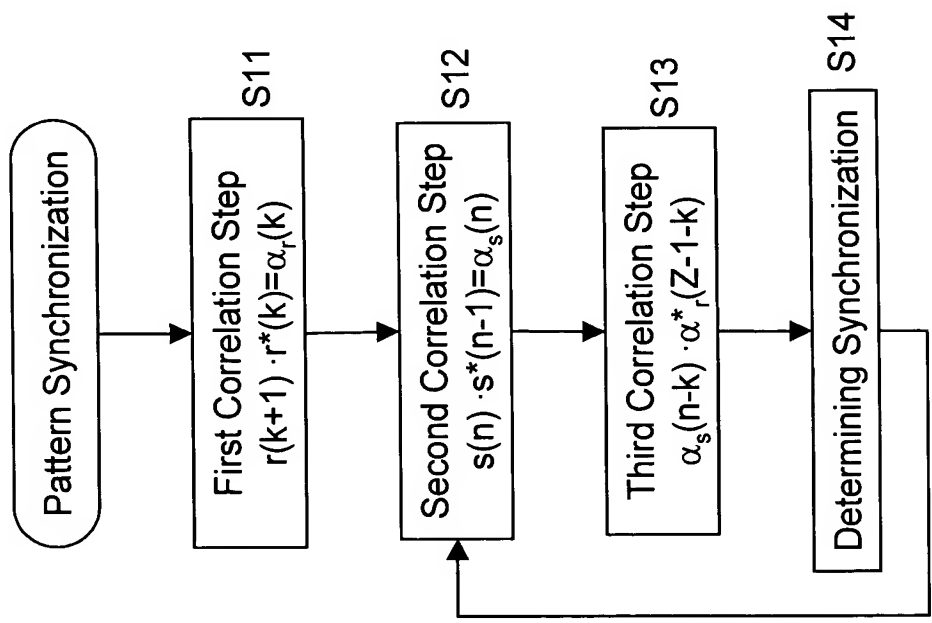


Fig. 1

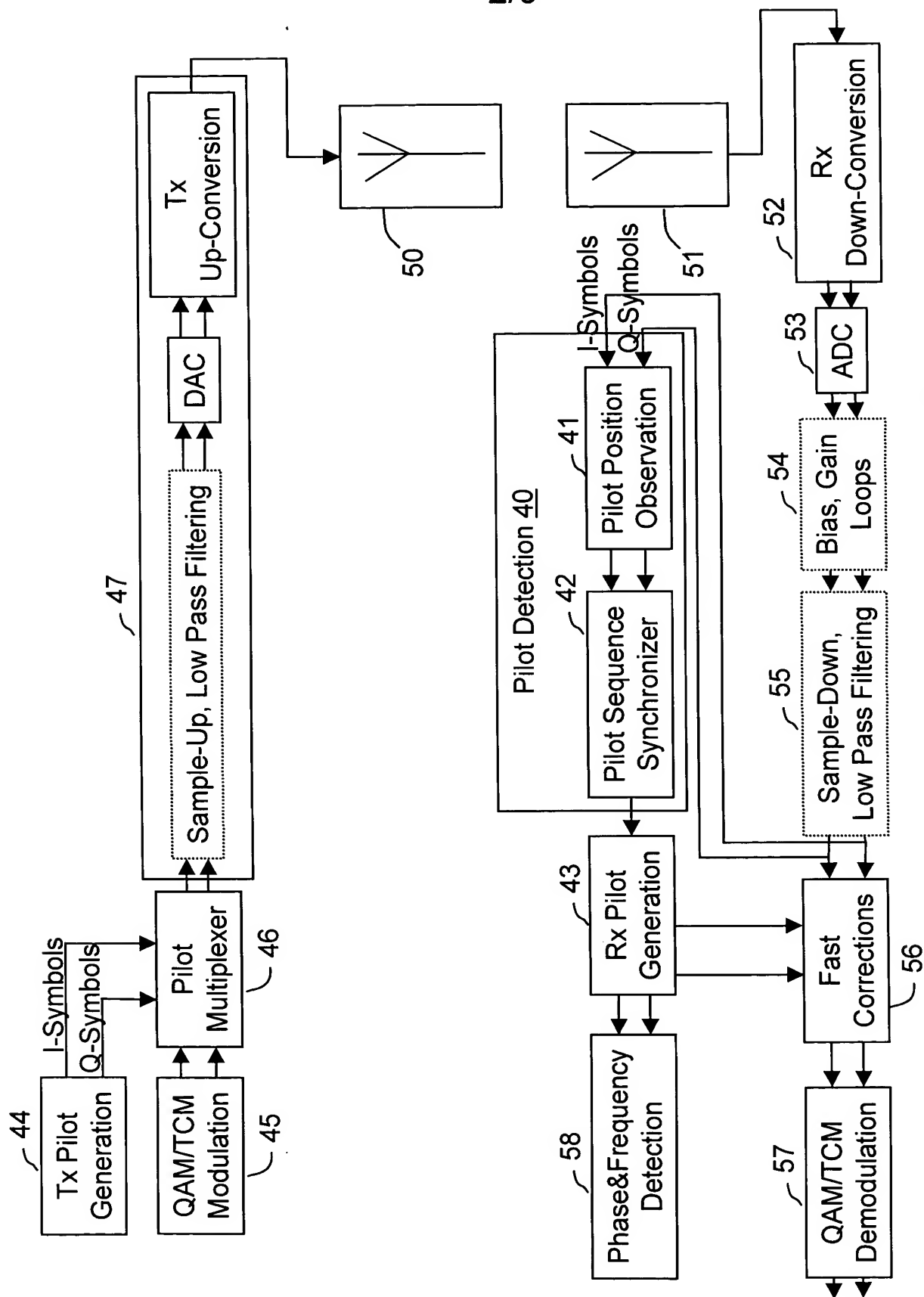


Fig. 3

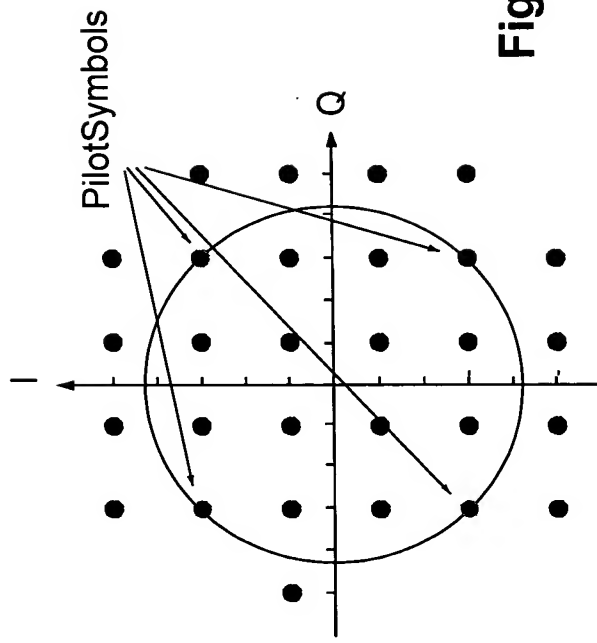


Fig. 4

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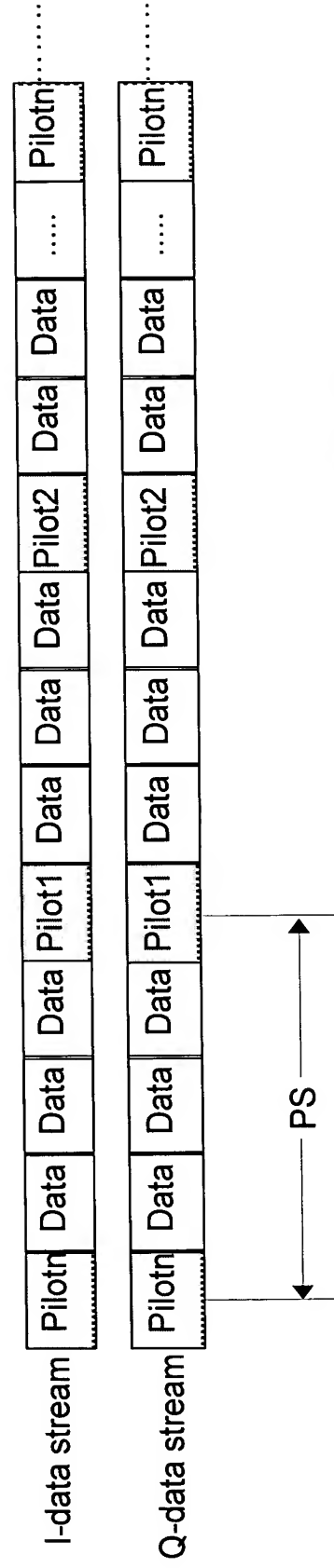


Fig. 5

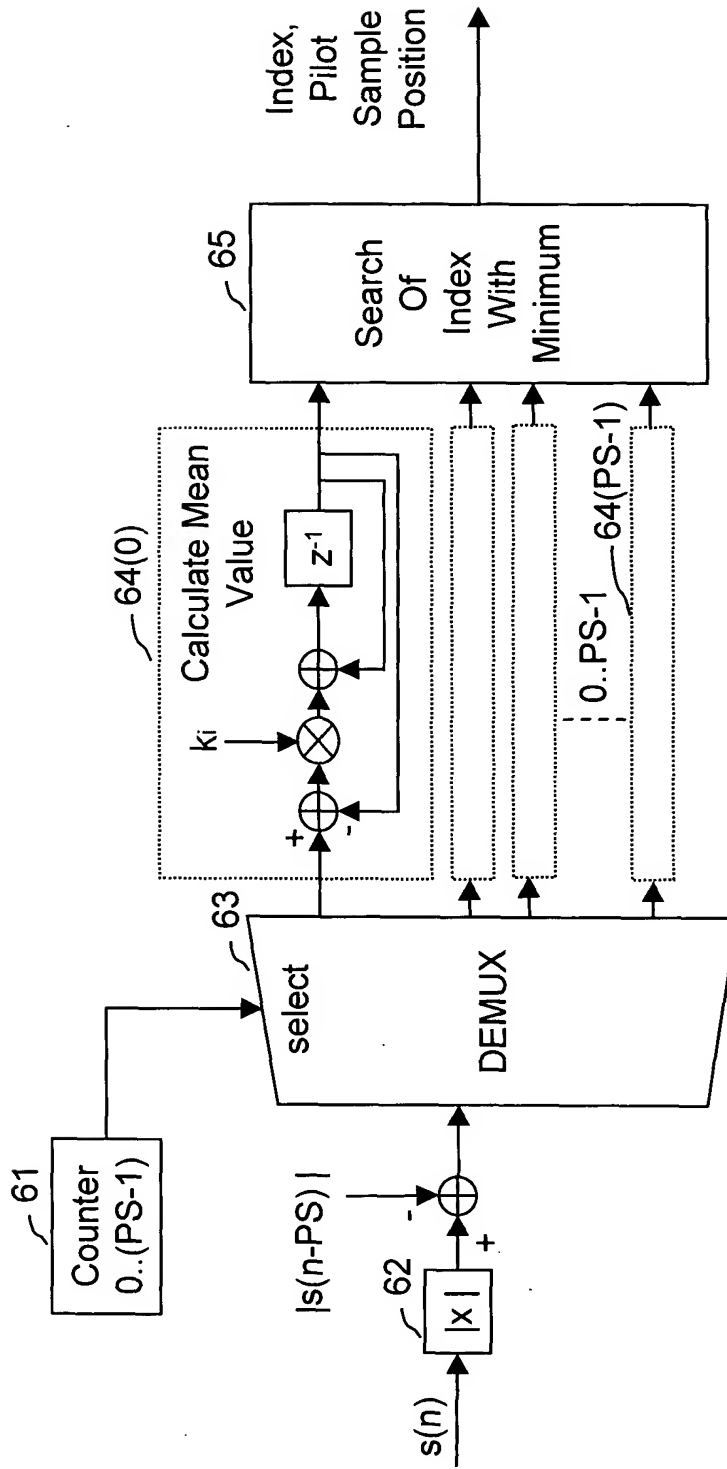


Fig. 6

I/Q pilot symbols

Pilot	Pilot	Pilot	Pilot	Pilot	Pilot	Pilot	Pilot	Pilot	Pilot	Pilot	Pilot	Pilot	Pilot	Pilot	Pilot	Pilot
1	2	3	4	5	6	P-3	P-2	P-1	P				

Reference pattern sequence of length Z , ($Z < P$)

Complete pattern sequence of pilot symbols of length P

Fig. 7

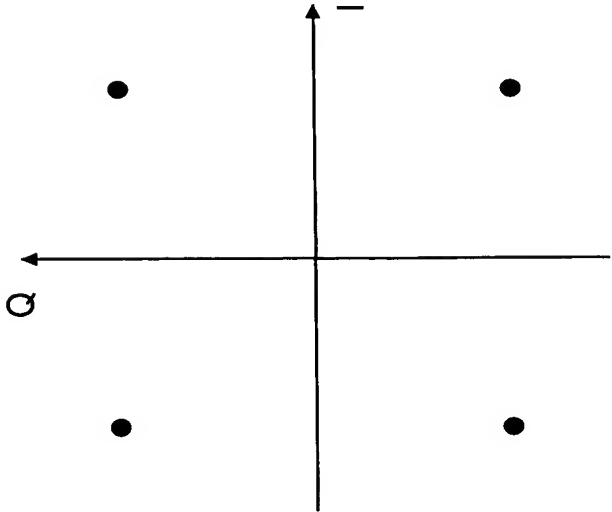


Fig. 8

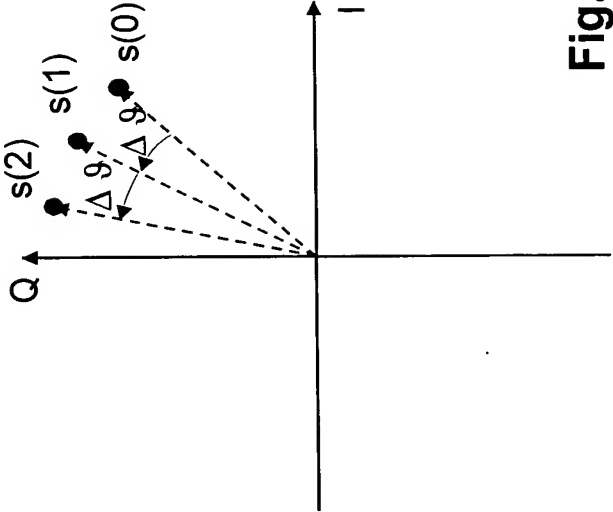


Fig. 9

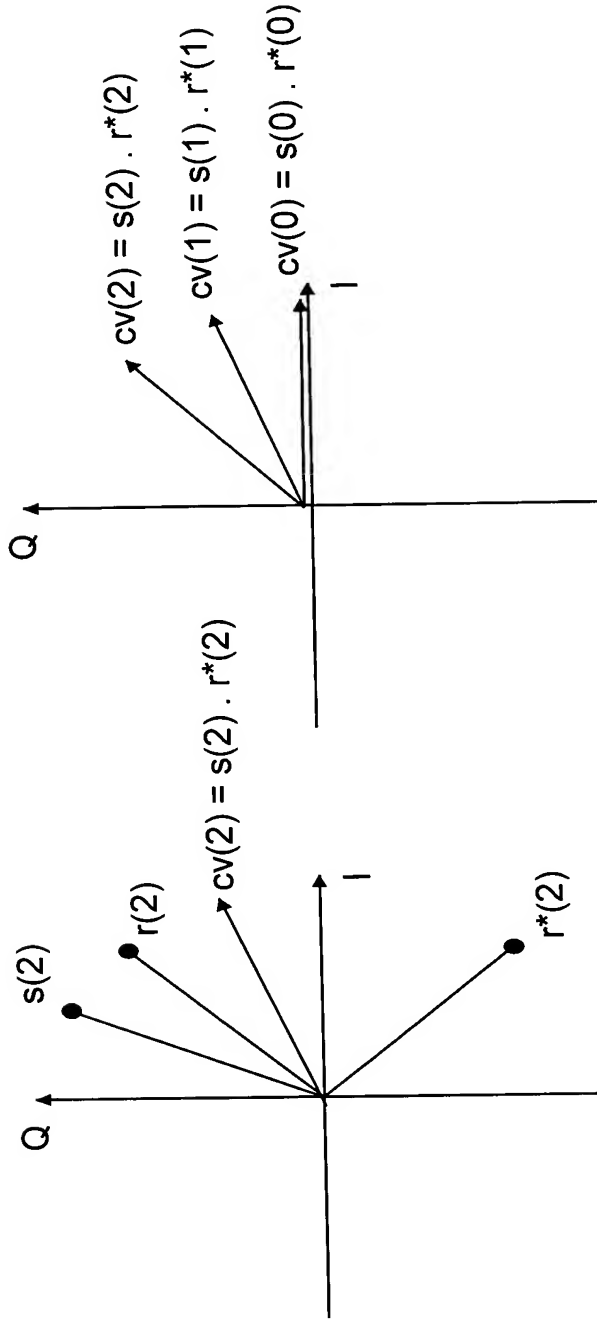


Fig. 10

Fig. 11

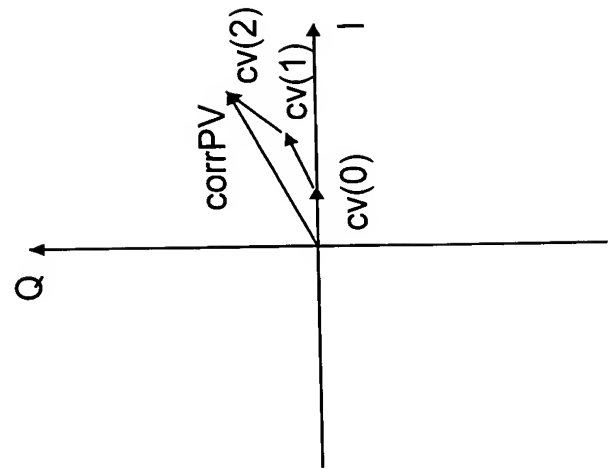


Fig. 12

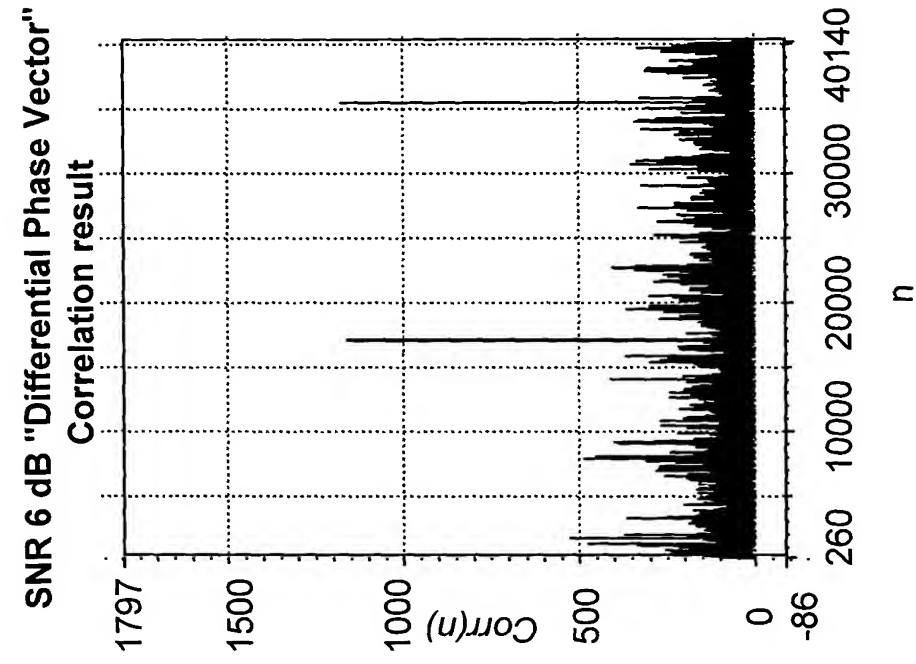


Fig. 14

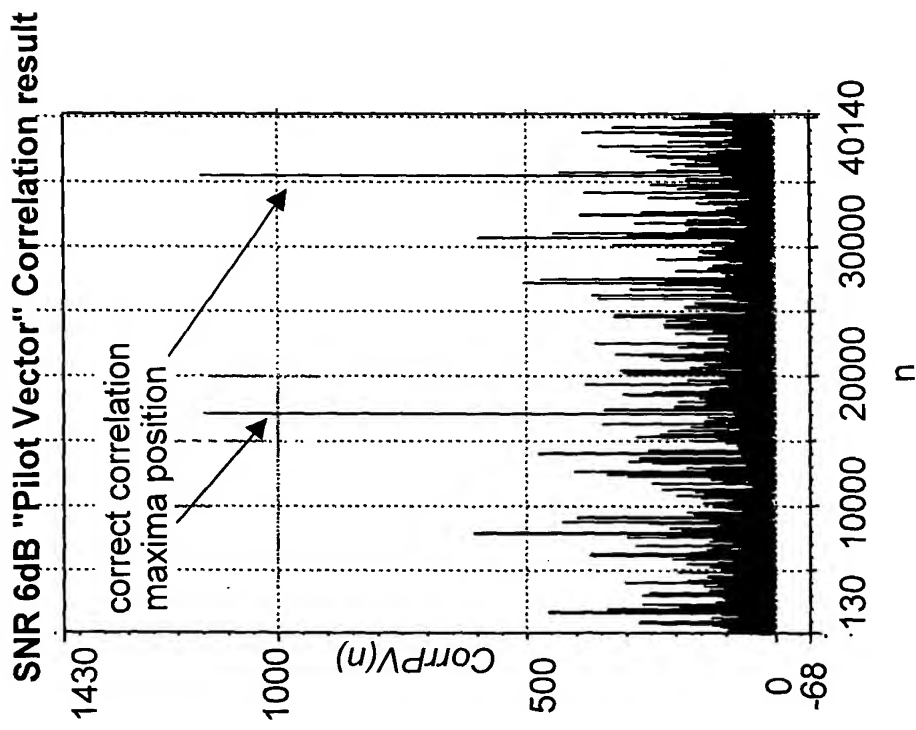


Fig. 13

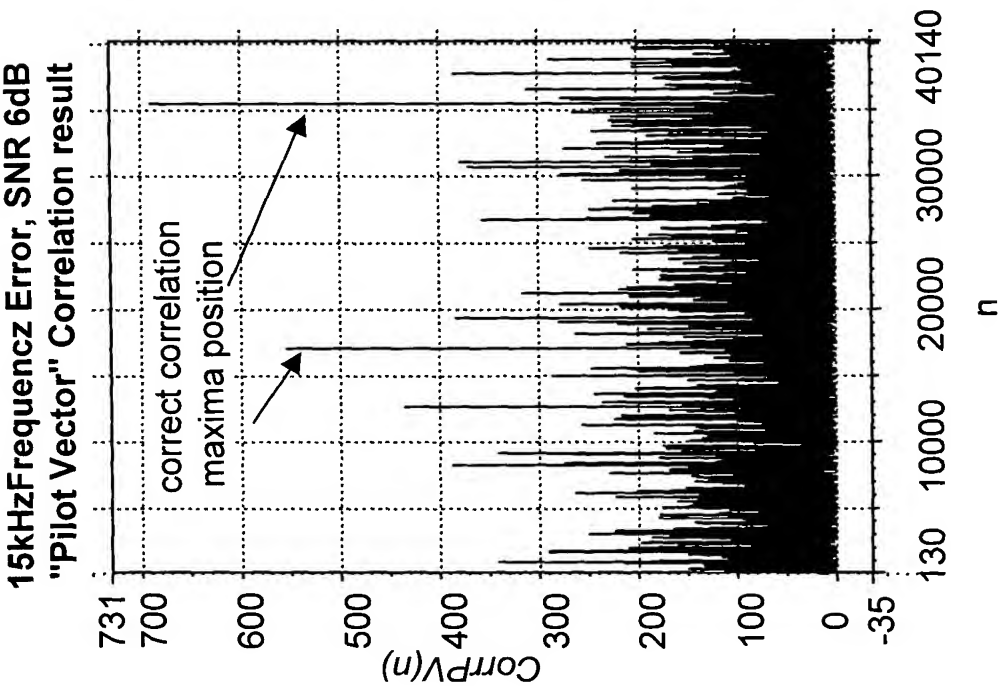


Fig. 15

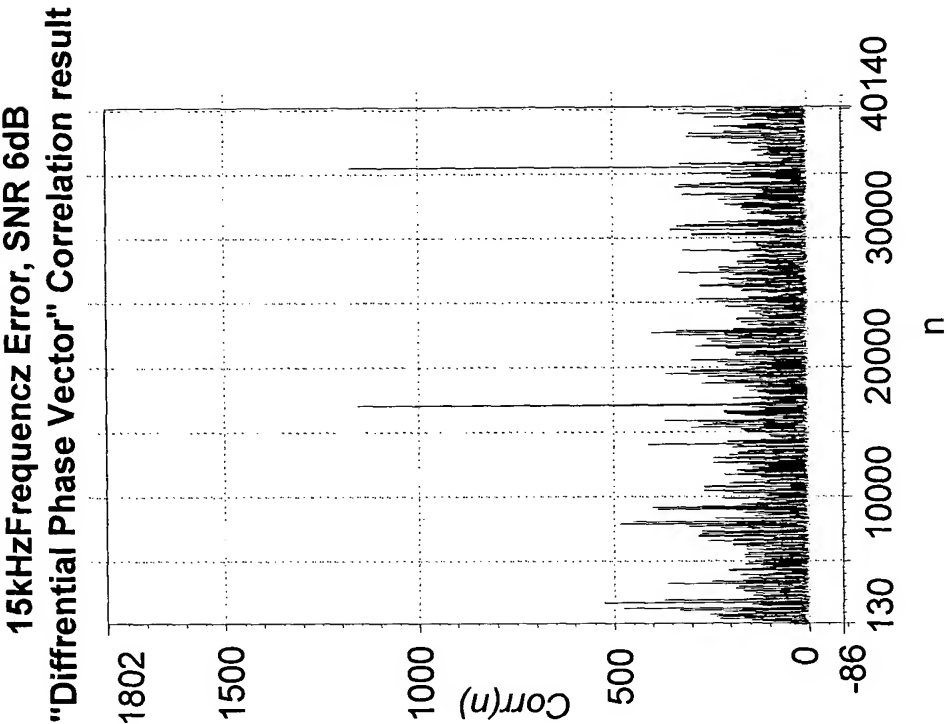


Fig. 16

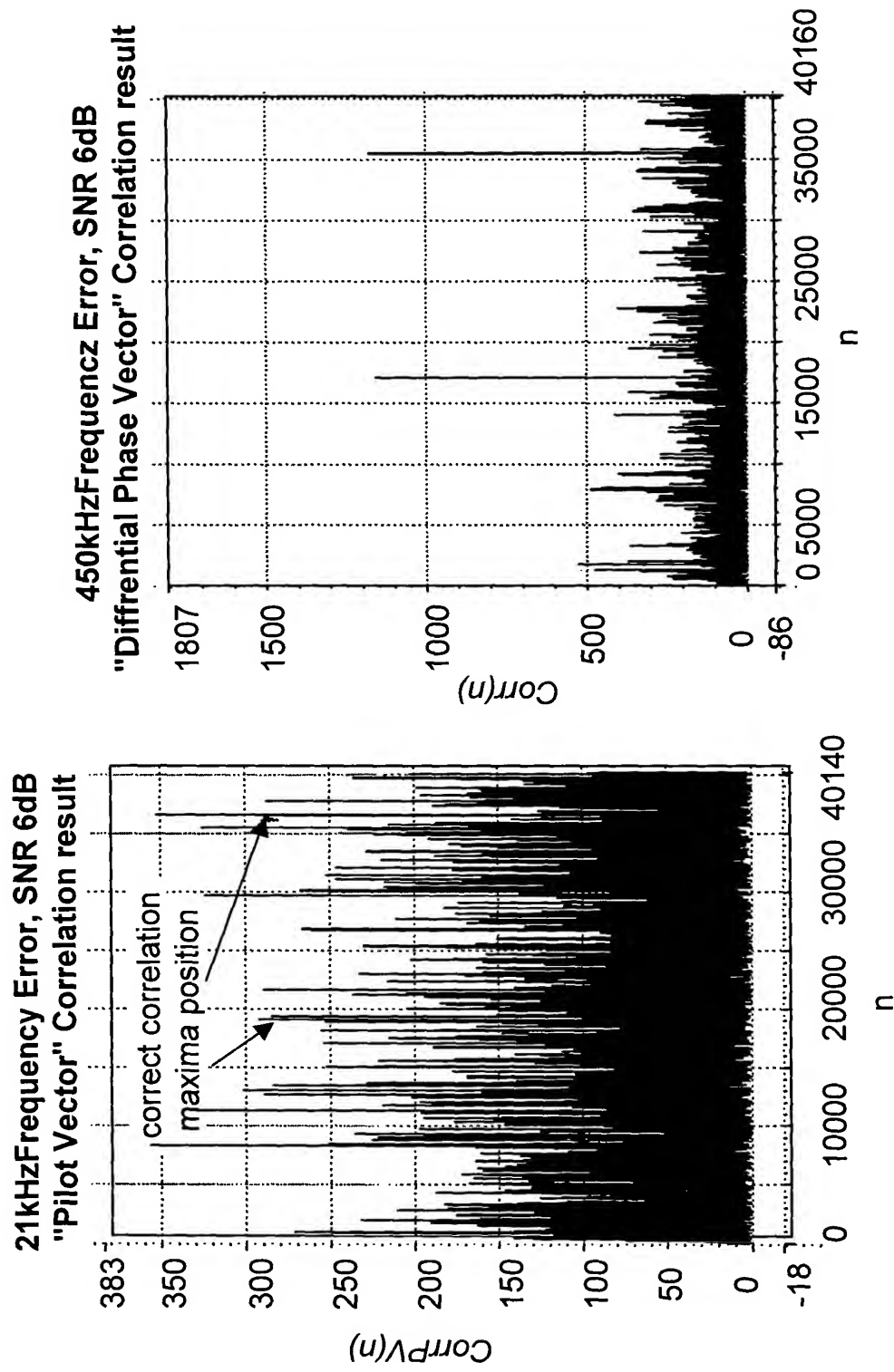


Fig. 18

Fig. 17